

GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 17:36:08 ; Search time 1833.38 Seconds  
(without alignments)  
11425.598 Million cell updates/sec

Title: US-09-761-580-1\_COPY\_800\_1800

Perfect score: 1001

Sequence: 1 atatattacagcatgttgcac.....cagtggagccagggtt 1001

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl:\*

1: gb\_ba:\*

2: gb\_htc:\*

3: gb\_in:\*

4: gb\_com:\*

5: gb\_ov:\*

6: gb\_pat:\*

7: gb\_ph:\*

8: gb\_pl:\*

9: gb\_pr:\*

10: gb\_ro:\*

11: gb\_sis:\*

12: gb\_sty:\*

13: gb\_un:\*

14: gb\_vl:\*

15: em\_ba:\*

16: em\_fun:\*

17: em\_hum:\*

18: em\_in:\*

19: em\_mu:\*

20: em\_om:\*

21: em\_lor:\*

22: em\_lov:\*

23: em\_pat:\*

24: em\_lph:\*

25: em\_lpl:\*

26: em\_ro:\*

27: em\_ls:\*

28: em\_lun:\*

29: em\_lvi:\*

30: em\_htg\_hum:\*

31: em\_htg\_inv:\*

32: em\_htg\_other:\*

33: em\_htg\_other:\*

al number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 200000000

1 1001 100.0 2583 6 AX151744  
2 1001 100.0 2583 9 HSPDCE2  
3 1001 100.0 2583 9 AK057299  
4 961 96.0 2540 9 HUMIGMC  
5 871.4 87.1 2543 4 AB036739  
6 768.6 76.8 1700 10 AY041665  
7 747.8 74.7 2266 10 RATPOCE2  
8 735.8 73.5 1370 6 A05167  
9 735.8 73.5 1370 10 RATMIA  
10 735.8 73.5 1370 10 RATPRCA  
11 701 70.0 956 6 A05169  
12 655.8 65.5 660 9 HSDHACTYL  
13 264 26.4 2038 10 BC003202  
14 223 22.3 2219 6 AX05911  
15 210 21.0 1833 3 DDU06634  
16 205.8 20.6 40897 8 SPCC794  
17 202.2 20.2 1620 6 AV033001  
18 200.8 20.1 2001 8 AF367302  
19 186.8 18.7 1981 8 AF135014  
20 178.4 17.8 27797 3 CERF23B12  
21 170.2 17.0 40961 3 CERG27D19  
22 169.2 16.9 172 6 AX341497  
23 168.4 16.8 8238 1 ZMPDHGEN  
24 167 16.7 161920 2 AF002502  
25 167 16.7 16922 9 AF002077  
26 167 16.7 175419 2 AF000738  
27 167 16.7 187516 2 AC009648  
28 162 16.2 11199 1 AR008633  
29 162 16.2 271110 1 RPX03  
30 157.6 15.7 1744 9 HSPROTE  
31 157.6 15.7 1949 9 HSU79296  
32 157.6 15.7 2320 9 AF001437  
33 156.8 15.7 175419 2 AR000738  
34 156 15.6 2250 9 BC010399  
35 156 15.6 2365 9 HSU82328  
36 141.2 14.1 74587 2 AC025500  
37 141.1 14.1 10931 2 AC027079  
38 140.8 14.1 62280 2 AC094189  
39 134.8 13.5 9353 1 AE009644  
40 137.2 13.7 21754 2 ATDPHAT  
41 127.2 12.7 2274 8 AF066080  
C 42 125.8 12.6 41309 2 AC017138  
43 125.8 12.6 41309 3 ACO08354  
44 125.8 12.6 257224 3 AEO03617  
45 124.6 12.4 660 8 CNS01BMX

## ALIGNMENTS

RESULT 1

AX151744 Locus AX151744  
DEFINITION Sequence 1 from Patent EP118679.  
ACCESSION AX151744  
VERSION AX151744.1  
KEYWORDS human.  
SOURCE Homo sapiens  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
REFERENCE 1 (bases 1 to 2583)  
AUTHORS Smith, J.C., Astrand, R. and Morten, J.E.  
TITLE Method for diagnosing polymorphisms in the human pdh e2 gene  
JOURNAL Patent: EP 118679-A 1 25-JUL-2001; Astrazeneca AB (SE)

FEATURES Location/Qualifiers

source 1. "organism="Homo sapiens"  
/db\_xref="Taxon:9606"  
/db\_xref="Taxon:9606"

Result No. Score Query Match Length DB ID Description

BASE COUNT 742 a 562 c 564 g 715 t

ORIGIN

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.





















RESULT	14	AUTHORS	Mueller-Taubenberger, A.
Db	252	TITLE	Direct Submission
		JOURNAL	Submitted (08-FEB-1994) Annette Mueller-Taubenberger, Am Klopferspitz 18A, Max-Planck-Institute for Biochemistry, Am Klopferspitz 18A, Martinsried, 82152, Germany
Qy	990	FEATURES	Location/Qualifiers
Db	312	source	1. -1833
			/organism="Dictyostelium discoideum"
		LOCUS	/strain="Ax2"
		DEFINITION	/clone.lib="lambda-gt1"
		ACCESSION	/db_xref="taxon:4689"
		VERSION	<1. -1779
		KEYWORDS	note="subunit E2 of the dehydrogenase complex; product is located in the mtochondrion; putative single copy gene, but 2 mRNAs of 1.5kb and 2.1kb expressed"
		SOURCE	/codon_start=1
		ORGANISM	/product="dehydrolipoamide acetyltransferase"
		Mus musculus	/protein_id="AA16511.1"
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus	/db_xref="GI:458426"
		(sites)	
		Ishikawa, K., Asai, S., Takahashi, Y., Nagata, T. and Ishii, Y.	
		Method for examining ischemic conditions	
		JOURNAL	Patent: WO 018188-A 662 22-Nov-2001; School: Juridical Person Nihon University (JP)
		FEATURES	location/Qualifiers
		source	1. -319
			/organism="Mus musculus"
		BASE COUNT	/db_xref="taxon:10090"
		ORIGIN	2. 60 a 60 c 77 g 93 t
		Query Match	22.3%; Score 223; DB 6; Length 319;
		Best Local Similarity	88.9%; Pred. No. 4. 3e-44;
		Matches	241; Conservative 0; Mismatches 30; Indels 0; Gaps 0;
		Qy	731
		Db	1
		Qy	791
		Db	61
		Qy	851
		Db	121
		Qy	911
		Db	181
		Qy	971
		Db	241
		RESULT	15
DDU06634	DDU06634	LOCUS	DDU06634 1833 bp mRNA linear INV 08-MAR-1994
		DEFINITION	Dictyostelium discoideum dihydrolipoamide transacetylase mRNA, partial cds.
		ACCESSION	U06634
		VERSION	GI:458425
		KEYWORDS	
		SOURCE	Dictyostelium discoideum.
		ORGANISM	Dictyostelium discoideum.
			Eukaryota: Mycetozoa; Dictyosteliida; Dictyostelium.
			1 (bases 1 to 1833)
			Mueller-Taubenberger, A.
			Title: Dihydrolipoamide transacetylase gene from Dictyostelium discoideum
			Journal: Unpublished
			2 (bases 1 to 1833)

Search completed: August 13, 2002, 19:30:33  
Job time: 6865 sec

Copyright (c) 1993 - 2000 Compugen Ltd.  
GenCore version 4.5

OM nucleic - nucleic search, using sw model  
Run on: August 13, 2002, 18:26:23 ; Search time 208.64 Seconds  
Perfect score: 101 (without alignments)  
Sequence: 1tatatatcagaatttgtacac.....cagtggagccagggttt 101  
Scoring table: IDENTITY\_NUC  
Gap open: 10.0 , Gapext: 1.0  
Searched: 1736436 seqs, 858457221 residues  
al number of hits satisfying chosen parameters: 3472872  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : N\_Geneseq\_032802:\*

1: /SIDS1/gcadata/geneseq/geneseq/geneseq -embl/NA1980.DAT:\*

2: /SIDS1/gcadata/geneseq/geneseq -embl/NA1981.DAT:\*

3: /SIDS1/gcadata/geneseq/geneseq -embl/NA1982.DAT:\*

4: /SIDS1/gcadata/geneseq/geneseq -embl/NA1983.DAT:\*

5: /SIDS1/gcadata/geneseq/geneseq -embl/NA1984.DAT:\*

6: /SIDS1/gcadata/geneseq/geneseq -embl/NA1985.DAT:\*

7: /SIDS1/gcadata/geneseq/geneseq -embl/NA1986.DAT:\*

8: /SIDS1/gcadata/geneseq/geneseq -embl/NA1987.DAT:\*

9: /SIDS1/gcadata/geneseq/geneseq -embl/NA1988.DAT:\*

10: /SIDS1/gcadata/geneseq/geneseq -embl/NA1989.DAT:\*

11: /SIDS1/gcadata/geneseq/geneseq -embl/NA1990.DAT:\*

12: /SIDS1/gcadata/geneseq/geneseq -embl/NA1991.DAT:\*

13: /SIDS1/gcadata/geneseq/geneseq -embl/NA1992.DAT:\*

14: /SIDS1/gcadata/geneseq/geneseq -embl/NA1993.DAT:\*

15: /SIDS1/gcadata/geneseq/geneseq -embl/NA1994.DAT:\*

16: /SIDS1/gcadata/geneseq/geneseq -embl/NA1995.DAT:\*

17: /SIDS1/gcadata/geneseq/geneseq -embl/NA1996.DAT:\*

18: /SIDS1/gcadata/geneseq/geneseq -embl/NA1997.DAT:\*

19: /SIDS1/gcadata/geneseq/geneseq -embl/NA1998.DAT:\*

20: /SIDS1/gcadata/geneseq/geneseq -embl/NA1999.DAT:\*

21: /SIDS1/gcadata/geneseq/geneseq -embl/NA2000.DAT:\*

22: /SIDS1/gcadata/geneseq/geneseq -embl/NA2001.DAT:\*

23: /SIDS1/gcadata/geneseq/geneseq -embl/NA2002.DAT:\*

24: /SIDS1/gcadata/geneseq/geneseq -embl/NA2003.DAT:\*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1001	100	2583 22 AAD07345	Human PRYmat dehydrogenase
2	1000.2	99.9	3859 21 AAF21916	Human breast and o
3	735.8	73.5	1370 9 AAN8410	Plasmid PRMT enco
4	699.4	69.9	966 9 AAN8411	Insert from cDNA p
5	250.4	25.0	360 23 AA570149	DNA encoding novel
6	223	22.3	319 24 AB199637	Mouse ischaemic co
7	209.8	21.0	1502 23 AB120587	Drosophila melanog
8	209.8	21.0	1850 23 AB109150	Drosophila melanog
9	155.4	15.5	639 23 AAS01050	DNA encoding novel

## ALIGNMENTS

10	125.8	12.6	4145	23	ABU2086	Drosophila melanogaster
11	125.8	12.6	4145	23	ABL09104	Arabidopsis thaliana
12	125.6	12.5	2348	21	AAC6077	DNA encoding novel
13	96.6	9.7	2595	23	AAS9226	N. meningitidis pa
14	88.2	8.8	22063	21	AAR21009	Neisseria meningitidis
15	88.2	8.8	349980	21	AAC4448	Arabidopsis thaliana
16	88	8.8	1302	22	AHH52869	S. epidermidis ope
17	88	8.8	3133	22	AHH54299	S. epidermidis gen
18	88	8.8	3190	22	AHH54272	S. epidermidis gen
19	88	8.8	3354	22	AHH54299	S. epidermidis gen
20	88	8.8	3501	22	AHH53882	S. epidermidis gen
21	85	8.5	1549	21	AAC4448	Arabidopsis thaliana
22	85	8.5	1708	22	AHX06319	Arabidopsis Pyruvate
23	81.8	8.2	4858	18	AHV74590	Staphylococcus aureus
24	80.8	8.1	1971	23	AAS80749	DNA encoding novel
25	80.4	8.0	580073	18	AAT5840	Mycoplasma genitalium
26	79.4	7.9	1290	23	AAS52165	Staphylococcus aureus
27	79.4	7.9	1293	23	AAS55200	Staphylococcus aureus
28	78.8	7.9	1260	22	AHH35561	S. epidermidis ope
29	78.8	7.9	3394	22	AHH54265	S. epidermidis gen
30	77.8	7.8	482	21	AAC35285	Zea mays DNA fragm
31	77.8	7.8	1230	23	AAS5336	Haemophilus influenzae
32	77.6	7.8	119211	22	AAP28553	Genomic fragment
33	77.6	7.8	1830121	17	AAT42063	Haemophilus influenzae
34	76	7.6	1044	23	AAS55375	Streptococcus pneumoniae
35	76	7.6	11340	19	AHV52280	Streptococcus pneumoniae
36	75.8	7.6	7953	18	AHV74463	Staphylococcus aureus
37	74.6	7.5	26923	22	AAC289524	Genomic fragment
38	72.4	7.2	1254	20	AAX07106	Staphylococcus aureus
39	72.4	7.2	1254	20	AAX07107	Staphylococcus aureus
40	72.4	7.2	1254	20	AAX07108	Staphylococcus aureus
41	71.8	7.2	102	21	AAC35957	Arabidopsis thaliana
42	71.8	7.2	1839	21	AAC35982	Arabidopsis thaliana
43	70.2	7.0	103602	20	AAX01425	Complete genome se
44	68.8	7.0	1185	22	AHH52579	S. epidermidis ope
45	69.8	7.0	2706	20	AAV8190	Granulocytic Ehrlichia
ALIGNMENTS						
RESULT	1					
ID	AAD07345	standard; DNA; 2583 BP.				
XX	AC	AAD07345;				
XX	DT	12-SEP-2001 (first entry)				
XX	DE	Human pyruvate dehydrogenase complex E2 (PDH E2 or PDC E2) gene.				
XX	KW	Human; pyruvate dehydrogenase complex E2; PDH E2; PDC E2; polymorphism; lactic acidemia; coronary failure; cardiac myopathy; weakness; diabetes; muscle ataxia; peripheral vascular disease; myocardial ischaemia; asthma; bioinformatic analysis; pharmacogenetic analysis; obesity; sepsis; drug; genetic marker; therapy; ds.				
XX	OS	Homo sapiens.				
XX	FH	location/qualifiers				
XX	FT	Key CDS	211..1848			
FT	FT	/*tag*/ a				
FT	FT	/*product*/ "Human pyruvate dehydrogenase complex E2"				
FT	FT	/*replace*/ (857, C)				
FT	FT	/*tag*/ C				
FT	FT	/*note*/ "This variation occurs during polymorphism"				
FT	FT	variation replace (1255, A)				
FT	FT	/*tag*/ d				
FT	FT	/*note*/ "This variation occurs during polymorphism"				
XX	PN	EP1118679-A1.				
XX	XX	25-JUL-2001.				
PD						













RESULT	9
AAS70150	
ID	AAS70150 standard; cDNA; 639 BP.
XX	
AC	AAS70150;
XX	
DT	
XX	
13 - FEB - 2002	(first entry)
DNA encoding novel human diagnostic protein #5954.	
Human: chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.	
XX	
OS	Homo sapiens.
XX	
PN	W0200175067-A2.
XX	
PD	11-OCT-2001.
XX	
PF	30-MAR-2001; 2001WO-US08631.
XX	
PR	31-MAR-2000; 2000US-0540217.
XX	
PR	23-AUG-2000; 2000US-0649167.
XX	
PA	(HYSEQ -) HYSEQ INC.
XX	
PI	Drimanac RT, Liu C, Tang YT;
XX	
DR	WPI; 2001-639362/73.
XX	
PT	New isolated polynucleotide and encoded polypeptides, useful in PT diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess PT biodiversity
XX	
XX	Claim 1; SEQ ID No 5954; 103pp; English.
The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridization probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (II) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating (II) in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AS6197, AS94564 represent novel human diagnostic coding sequences of the invention.	
Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at <a href="http://wipo.int/pub/published_pct_sequences">ftp://wipo.int/pub/published_pct_sequences</a> .	

13-FEB-2002 (111ST ENTRY)  
XX DT  
DNA encoding novel human diagnostic protein #5954.  
Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss. XX KW  
XX OS Homo sapiens.  
XX PN WO200175067-A2.  
XX PD 11-OCT-2001.  
XX PF 30-MAR-2001; 2001WO-US08631.  
XX PR 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX PA (HYSE-) HYSEQ INC.  
XX PI Drmanac RT, Liu C, Tang YT;  
XX WPI; 2001-639362/73.  
DR P-PSDB; ABG05963.  
XX PT New isolated polynucleotide and encoded polypeptides, useful in diagnostic, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess PT biodiversity -  
XX  
Claim 1; SEQ ID NO 5954; 103pp; English.

CC at [ftp://wipo.int/pub/published\\_pct-sequences](ftp://wipo.int/pub/published_pct-sequences).  
 XX  
 SQ Sequence 4983 BP; 1461 A; 1129 C; 1029 G; 1364 T; 0 other;

Query Match 12.5%; Score 125.8; DB 23; Length 4983;  
 Best Local Similarity 63.3%; Pred. No. 1.5e-25;  
 Matches 193; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 526 ttcttcataatgtacttcataaaagcttcagttggcatgtttaaaggccgaaag 585  
 Db 2495 tctctgttaaacgacttcatttcataaaggccatgttgcacgtttaatgttccogaag 2554

QY 586 caaattttctgtatggacacatataaataatcgatgtgtatggatgttgcgttg 645  
 Db 2555 cgaactccgcgtatggacatcgatattcgatgttgcacgttgcgttg 2614

QY 646 cggctatgtatccgtatggatgttgcacatataaataatcgatgtgtatggatgttgcgttg 705  
 Db 2615 ctgtctccacagacaaaggccatgttaccccgatgtttcaatgtccacgcgaaagggtg 2674

QY 706 tggaaaccatgtctatgtatgttttttagccaaaggccatgttgcgttg 765  
 Db 2675 tcctggatgttcttaatggatgttgcacggccatgttgcgttg 2734

QY 766 agccatgtatggatggatggatgttgcacatataaataatcgatgttgcgttg 825  
 Db 2735 agccccacgaattccagggttgcacatctcgatgtttcaatctggatgttgcgttg 2794

QY 826 agaardt 830  
 Db 2795 gaat 2799

RESULT 11  
 ABL09104 standard; cDNA; 4983 BP.  
 ID ABL09104  
 XX  
 AC ABL09104;  
 XX  
 DT 26-MAR-2002 (first entry)  
 XX  
 DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 21794.  
 XX  
 KW Drosophila; developmental biology; cell signalling; insecticide;  
 XX  
 KW pharmaceutical; gene; ss.  
 OS Drosophila melanogaster.  
 PN WO200171042-A2.  
 XX  
 PD 27-SEP-2001.  
 XX  
 PP 23-MAR-2001; 2001WO-US09231.  
 YY 23-MAR-2000; 2000US-191637P.  
 11-JUL-2000; 2000US-061450.  
 XX  
 XX  
 PA (PEKE ) PE CORP NY.  
 XX  
 PI Venter JC, Adams M, Li PWD, Myers EW;  
 XX  
 DR WPI; 2001-656860/75.  
 DR P-PSDB; ABB65001.  
 XX  
 PT New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -  
 PT  
 PS Claim 1; SEQ ID NO 21794; 21pp + Sequence Listing; English.  
 XX  
 The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL1676-ABL13051), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO specification, but was obtained in electronic format directly from WIPO

CC at [ftp://wipo.int/pub/published\\_pct-sequences](ftp://wipo.int/pub/published_pct-sequences).  
 XX  
 SQ Sequence 4983 BP; 1461 A; 1129 C; 1029 G; 1364 T; 0 other;

Query Match 12.5%; Score 125.8; DB 23; Length 4983;  
 Best Local Similarity 63.3%; Pred. No. 1.5e-25;  
 Matches 193; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 526 ttcttcataatgtacttcataaaagcttcagttggcatgtttaaaggccgaaag 585  
 Db 3333 tctctgttaaacgacttcatttcataaaggccatgttgcgttg 3392

QY 586 caaattttctgtatggacacatataaataatcgatgtgtatgttgcgttg 645  
 Db 3393 cgaactccgcgtatggacatcgatgttgcacggccatgttgcgttg 3452

QY 646 cggctatgtatccgtatggatgttgcacatataaataatcgatgttgcgttg 705  
 Db 3453 ctgtctccacagacaaagggttgcgttccatgttgcacgttgcgttg 3512

QY 706 tggaaaccatgtctatgtatgttttttagccaaaggccatgttgcgttg 765  
 Db 3513 tcctggatgttcttaatggatgttttttagccaaaccatgttgcgttg 3572

QY 766 agccatgtatggatggatggatgttgcacatataaataatcgatgttgcgttg 825  
 Db 3573 agccccacgaattccagggttgcacatctcgatgtttcaatctggatgttgcgttg 3632

QY 826 agaardt 830  
 Db 3633 gaat 3637

RESULT 12  
 AAC46977 standard; DNA; 2348 BP.  
 ID AAC46977  
 XX  
 AC AAC46977;  
 XX  
 DT 18-OCT-2000 (first entry)  
 XX  
 DE Arabidopsis thaliana DNA fragment SEQ ID NO: 52106.  
 XX  
 KW Hybridisation assay; genetic mapping; gene expression control; protein identification; signal transduction pathway; metabolic pathway; promoter; termination sequence; ss.  
 XX  
 OS Arabidopsis thaliana.  
 XX  
 PN EP1033405-A2.  
 XX  
 PD 06-SEP-2000.  
 XX  
 PR 25-FEB-2000; 2000EP-0301439.  
 XX  
 PR 25-FEB-1999; 990US-0121825.  
 PR 05-MAR-1999; 990US-0123180.  
 PR 09-MAR-1999; 990US-0123548.  
 PR 23-MAR-1999; 990US-0125788.  
 PR 25-MAR-1999; 990US-0126264.  
 PR 29-MAR-1999; 990US-0126785.  
 PR 01-APR-1999; 990US-0127462.  
 PR 06-APR-1999; 990US-0128234.  
 PR 08-APR-1999; 990US-0128714.  
 PR 16-APR-1999; 990US-0129845.  
 PR 19-APR-1999; 990US-0130077.  
 PR 21-APR-1999; 990US-0130449.  
 PR 23-APR-1999; 990US-0130510.  
 PR 23-APR-1999; 990US-0130891.  
 PR 28-APR-1999; 990US-0131449.  
 PR 30-APR-1999; 990US-0132048.  
 PR 30-APR-1999; 990US-0132407.

PR	04-MAY-1999;	99US-0132494.	PR	22-JUL-1999;	99US-0145085.
PR	05-MAY-1999;	99US-0132485.	PR	22-JUL-1999;	99US-0145087.
PR	06-MAY-1999;	99US-0132486.	PR	22-JUL-1999;	99US-0145089.
PR	06-MAY-1999;	99US-012487.	PR	22-JUL-1999;	99US-0145192.
PR	07-MAY-1999;	99US-0132883.	PR	23-JUL-1999;	99US-01451945.
PR	11-MAY-1999;	99US-0134256.	PR	23-JUL-1999;	99US-0145218.
PR	14-MAY-1999;	99US-014218.	PR	23-JUL-1999;	99US-0145224.
PR	14-MAY-1999;	99US-0134219.	PR	26-JUL-1999;	99US-0145276.
PR	14-MAY-1999;	99US-0134221.	PR	27-JUL-1999;	99US-014531.
PR	14-MAY-1999;	99US-0134370.	PR	27-JUL-1999;	99US-0145918.
PR	18-MAY-1999;	99US-0134786.	PR	27-JUL-1999;	99US-0145919.
PR	19-MAY-1999;	99US-0134941.	PR	28-JUL-1999;	99US-0145951.
PR	20-MAY-1999;	99US-013522.	PR	02-AUG-1999;	99US-0146386.
PR	21-MAY-1999;	99US-013533.	PR	02-AUG-1999;	99US-0146388.
PR	24-MAY-1999;	99US-0135629.	PR	02-AUG-1999;	99US-0146389.
PR	25-MAY-1999;	99US-0136021.	PR	03-AUG-1999;	99US-0147038.
PR	27-MAY-1999;	99US-015652.	PR	04-AUG-1999;	99US-0147204.
PR	28-MAY-1999;	99US-013682.	PR	04-AUG-1999;	99US-0147302.
PR	01-JUN-1999;	99US-013722.	PR	05-AUG-1999;	99US-0147792.
PR	03-JUN-1999;	99US-013758.	PR	05-AUG-1999;	99US-0147793.
PR	04-JUN-1999;	99US-0137502.	PR	06-AUG-1999;	99US-0147794.
PR	07-JUN-1999;	99US-0137724.	PR	06-AUG-1999;	99US-0147795.
PR	08-JUN-1999;	99US-0138094.	PR	09-AUG-1999;	99US-0147796.
PR	10-JUN-1999;	99US-0138540.	PR	09-AUG-1999;	99US-0147935.
PR	10-JUN-1999;	99US-0138847.	PR	10-AUG-1999;	99US-0148171.
PR	14-JUN-1999;	99US-0139119.	PR	11-AUG-1999;	99US-0148319.
PR	16-JUN-1999;	99US-0139452.	PR	12-AUG-1999;	99US-0148341.
PR	16-JUN-1999;	99US-0139453.	PR	13-AUG-1999;	99US-0148565.
PR	17-JUN-1999;	99US-0139492.	PR	13-AUG-1999;	99US-0148684.
PR	18-JUN-1999;	99US-0139454.	PR	16-AUG-1999;	99US-0149368.
PR	18-JUN-1999;	99US-0139461.	PR	17-AUG-1999;	99US-0149715.
PR	18-JUN-1999;	99US-0139456.	PR	18-AUG-1999;	99US-0149426.
PR	18-JUN-1999;	99US-0139457.	PR	20-AUG-1999;	99US-0149722.
PR	18-JUN-1999;	99US-0139458.	PR	20-AUG-1999;	99US-0149723.
PR	18-JUN-1999;	99US-0139459.	PR	23-AUG-1999;	99US-0149902.
PR	18-JUN-1999;	99US-0139460.	PR	23-AUG-1999;	99US-0149930.
PR	18-JUN-1999;	99US-0139461.	PR	25-AUG-1999;	99US-0150566.
PR	18-JUN-1999;	99US-0139463.	PR	26-AUG-1999;	99US-0150884.
PR	18-JUN-1999;	99US-0139465.	PR	27-AUG-1999;	99US-0151065.
PR	18-JUN-1999;	99US-013963.	PR	27-AUG-1999;	99US-0151066.
PR	21-JUN-1999;	99US-0139817.	PR	27-AUG-1999;	99US-0151080.
PR	22-JUN-1999;	99US-0139829.	PR	30-AUG-1999;	99US-0151303.
PR	23-JUN-1999;	99US-0140353.	PR	31-AUG-1999;	99US-0151438.
PR	23-JUN-1999;	99US-0140354.	PR	01-SEP-1999;	99US-0151930.
PR	24-JUN-1999;	99US-0140655.	PR	07-SEP-1999;	99US-0152363.
PR	28-JUN-1999;	99US-0140823.	PR	10-SEP-1999;	99US-0153070.
PR	29-JUN-1999;	99US-0140991.	PR	13-SEP-1999;	99US-0153758.
PR	30-JUN-1999;	99US-0141287.	PR	15-SEP-1999;	99US-0154018.
PR	01-JUL-1999;	99US-0141842.	PR	16-SEP-1999;	99US-0154039.
PR	02-JUL-1999;	99US-0142154.	PR	20-SEP-1999;	99US-0154779.
PR	06-JUL-1999;	99US-0142055.	PR	22-SEP-1999;	99US-0155139.
PR	08-JUL-1999;	99US-0142380.	PR	23-SEP-1999;	99US-0155486.
PR	09-JUL-1999;	99US-0142803.	PR	24-SEP-1999;	99US-0155659.
PR	12-JUL-1999;	99US-0142920.	PR	28-SEP-1999;	99US-0156458.
PR	13-JUL-1999;	99US-0143542.	PR	29-SEP-1999;	99US-0156596.
PR	14-JUL-1999;	99US-0143624.	PR	04-OCT-1999;	99US-0157117.
PR	15-JUL-1999;	99US-0144005.	PR	05-OCT-1999;	99US-015773.
PR	16-JUL-1999;	99US-0144333.	PR	06-OCT-1999;	99US-0157865.
PR	19-JUL-1999;	99US-0144334.	PR	07-OCT-1999;	99US-0158029.
PR	19-JUL-1999;	99US-0144335.	PR	08-OCT-1999;	99US-0158232.
PR	20-JUL-1999;	99US-0144335.	PR	12-OCT-1999;	99US-0158369.
PR	20-JUL-1999;	99US-0144336.	PR	13-OCT-1999;	99US-0158393.
PR	21-JUL-1999;	99US-0144884.	PR	13-OCT-1999;	99US-0159294.
PR	21-JUL-1999;	99US-0144884.	PR	14-OCT-1999;	99US-0159295.
PR	21-JUL-1999;	99US-0145086.	PR	14-OCT-1999;	99US-0159329.
PR	21-JUL-1999;	99US-0145088.	PR	14-OCT-1999;	99US-0159330.





Search completed: August 13, 2002, 19:38:36  
Job time: 4333 sec

Best Local Similarity 46.6%; Pred. No. 1e13; Mismatches 448; Indels 33; Gaps 3;





TELEPHONE: 206-622-4900  
 TELEFAX: 206-682-6031  
 INFORMATION FOR SEQ ID NO: 41:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3073 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 US-08-775-762-41

; SEQ ID NO 41  
; LENGTH: 3073  
; TYPE: DNA  
; ORGANISM: *Ehrlichia* sp.  
US-09-295-028-41

Query Match 7.0%; Score 69.8%; DB 4; Length 3073;  
 Best Local Similarity 46.8%; Pred. No. 6.5e-11;  
 Matches 258; Conservative 0; Mismatches 287; Indels 6; Gaps 1;







```

RESULT 11
US-08-881-771A-5
; Sequence 5, Application US/0881771A
; Patent No. 6113071

GENERAL INFORMATION:
APPLICANT: Gerswin, Eric
APPLICANT: Leung, Patrick
APPLICANT: Coppel, Ross
TITLE OF INVENTION: RECOMBINANT FUSION PROTEIN
NUMBER OF SEQUENCES: 14
COMPRISING N
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mandel & Adriano
STREET: 35 N. Arroyo Parkway, Suite 60
CITY: Pasadena
STATE: CA
COUNTRY: USA
ZIP: 91103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/881,771A
FILING DATE: 24-JUN-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30448.51US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 626-395-7801
TELEFAX: 626-395-0694

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1096 base pairs

```

FRAGMENT TYPE: ;  
ORIGINAL SOURCE: ;  
US-08-881-771A-5

Query Match 4.9%; Score 48.6; DB 3; Length 1096;  
Best Local Similarity 85.7%; Pred. No. 7. 8e-05; Mismatches 0; Indels 0; Gaps 0;  
Matches 54; Conservative 0; MisMatches 9;

Qy 1 atatacagatgtgtactataggccaaacggaaatccatataaaaccacaaatgc 60  
Db 755 ATATATGAGCATTTGTCGATATAGGCCAACCGAATGATTCGGGRC 814

Qy 61 cac 63  
Db 815 GAC 817

RESULT 12

US-08-881-771A-8  
Sequence 8, Application US/08881771A  
Patent No. 611071

GENERAL INFORMATION:

APPLICANT: Gershwin, Eric  
APPLICANT: Leung, Patrick  
APPLICANT: Coppel, Ross

TITLE OF INVENTION: RECOMBINANT FUSION PROTEIN

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Mandel & Adriano  
STREET: 35 N. Arroyo Parkway, Suite 60  
CITY: Pasadena  
STATE: CA  
COUNTRY: USA  
ZIP: 91103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/881.771A  
FILING DATE: 24-JUN-1996  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Adriano, Sarah B  
REGISTRATION NUMBER: 34.470  
REFERENCE/DOCKET NUMBER: 30448.510S01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 626-395-7801  
TELEFAX: 626-395-0694  
TELEX:

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:  
LENGTH: 426 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE:  
ORIGINAL SOURCE:

US-08-881-771A-8

RESULT 13  
 US-08-209-747-1/C  
 Sequence 1, Application US/08209747  
 Patent No. 5733771  
 GENERAL INFORMATION:  
 APPLICANT: Lewis, Randolph V.  
 APPLICANT: Colgin, Mark  
 TITLE OF INVENTION: cDNAs Encoding Minor Ampullate Spider  
 TITLE OF INVENTION: silk Proteins  
 NUMBER OF SEQUENCES: 56  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Birch, Stewart, Kolasch & Birch  
 STREET: P. O. Box 747  
 CITY: Falls Church  
 STATE: Virginia  
 COUNTY: USA  
 ZIP: 22040-3487  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/209, 747  
 FILING DATE: 14-MAR-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Murphy Jr., Gerald M.  
 REGISTRATION NUMBER: 28,977  
 REFERENCE/DOCKET NUMBER: 1447-104P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703-205-8000  
 TELEFAX: 703-205-8050  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2793 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: *Nephila clavipes*  
 TISSUE TYPE: minor ampullate gland  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 183..2675  
 OTHER INFORMATION: /product= "N. clavipes minor  
 OTHER INFORMATION: ampullate silk protein"  
 US-08-209-747-1

Query Match 4 3%; Score 42.6; DB 1; Length 2793;  
 Best Local Similarity 59.5%; Pred. No. 0.0085; Gaps  
 Matches 72; Conservative 0; Mismatches 49; Indels 0; Gaps  
 QY 38 aacagaggtaaaaccacaatgtgcaccacatccacccacccggatggcccgatgtttcc 97  
 Db 1663 ACCTATTCAGCACCACCGTGCCTGCACCGCCAGACGGCTCCAGCTCAGCACC 1604  
 QY 98 aaccccccgcgtttaatgtcttacccctatggacccgttgcacccgttgcacggatcttcgtgtggacc 157  
 Db 1603 AGCACCTCTACCGTACCAACCCAGGCCTCCGGCTCTGTGAGCAGCTGCGAGCACC 1544  
 QY 158 a 158  
 Db 1543 A 1543

RESULT 14  
US-08-458-298-1/c  
; Sequence 1, Application US/08458298  
; Patent No. 5756677  
GENERAL INFORMATION:  
APPLICANT: Lewis, Randolph V.  
APPLICANT: Coggin, Mark  
TITLE OF INVENTION: cDNAs Encoding Minor Ampullate Spider  
TITLE OF INVENTION: S1K Proteins  
NUMBER OF SEQUENCES: 56  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kollassch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-3487  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US 08/209,747  
FILING DATE: 14-MAR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Murphy, Jr., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1447-104P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-205-8000  
TELEFAX: 703-205-8050  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2793 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: *Nephila clavipes*  
Tissue Type: minor ampullate gland  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 183..2675  
OTHER INFORMATION: /product= "N. clavipes minor"  
OTHER INFORMATION: ampullate silk protein  
US-08-458-298-1

Search completed: August 13, 2002, 19:31:35  
Job time: 6827 sec

OM nucleic - nucleic search, using sw model

Run on: August 13, 2002, 17:33:53 ; search time 1695.31 Seconds  
(without alignments)  
7969.311 Million cell updates/sec

Scoring table: IDENTITY\_NUC

Sequence: 1atatacagcattgtgac.....cagttggagcccaagtggctt 1001

Gapext: 10.0 , Gapext 1.0

Post-processing: Minimum Match 0%

Maximum DB seq length: 200000000

Listing first 45 summaries

Database : EST:\*

1: em\_estba:\*

2: em\_estin:\*

3: em\_estin:\*

4: em\_estin:\*

5: em\_estov:\*

6: em\_estpl:\*

7: em\_estro:\*

8: em\_htcc:\*

9: gb\_est1:\*

10: gb\_est2:\*

11: gb\_htc:\*

12: gb\_gss:\*

13: em\_gss\_hum:\*

14: em\_gss\_inv:\*

15: em\_gss\_pn:\*

16: em\_gss\_vrt:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description	
1	739	73.8	751	9 AL040276	
2	712.2	71.1	745	9 AL501280	
3	685.4	68.5	738	9 AU126868	
4	682.2	833	9 AU127045	AL040276	
5	630.6	63.0	673	10 BG778185	
6	630	62.9	833	10 BI092658	
7	609.6	60.9	901	10 BI173045	
8	595	59.4	1030	10 BI4663514	
9	582.4	58.2	857	10 BG53201	
10	555.6	55.5	720	10 BP939962	
11	552.8	55.2	680	10 BG503419	
12	532.4	53.2	1125	9 AB867881	
13	526	664	10 AB390485	vx22c10.r	
14	515.4	51.5	10 BE850747	602416136	
15	509	50.8	774	10 BE658188	
16	508	50.7	669	10 BE627518	603385296
17	473.2	47.3	828	10 BF209700	601874236

ALIGNMENTS

RESULT	1
AL040276	AL040276
LOCUS	AL040276
DEFINITION	DKFZp434K2113_1L_434 (synonym: htcs3) mRNA sequence.
ACCESSION	AL040276
VERSION	AL040276.1
KEYWORDS	EST
SOURCE	human.
ORGANISM	Homo sapiens
COMMENT	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 751)
AUTHORS	Koehler, K., Beyer, A., Newes, H.W., Gassenhuber, J. and Wiemann, S.
TITLE	EST (Koehler, et al.)
JOURNAL	Unpublished (1999)
CONTACT	Koehler, K.
MIPS	Am Klopferspitz 18a D-82152 Martinsried, Germany
	This is the 5' sequence of the clone insert.
	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email: s.wiemann@dkfz-heidelberg.de;
	sequenced by BMFZ (Biomedical Research Center at the Charite, Berlin/Germany) within the CDNA sequencing consortium of the German Genome Project.
	No s1 sequence available.
	This clone (DKFZp434K2113) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
FEATURES	Location/Qualifiers
source	1. 751
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone="DKFZp434K2113"
	/clone_id="434 (synonym: htcs3)"
	/tissue_type="tissue"
	/de_stag="adult"
	/lab_host="DHIOB"
	/note="Vector: psport1; site_1: NotI; site_2: SalI"

BASE COUNT

226 a 147 c 160 g 218 t

ORIGIN

ORIGIN      MATCH      73 88.      SCORE 730.      DR 9.      LENGTH 751.

**AUTHORS** Li, W.B., Gruber, C., Jesse, J. and Polayes, D.  
**TITLE** Full-length cDNA libraries and normalization  
**JOURNAL** Unpublished (2001)  
**COMMENT** Contact: Genoscope

















